

# **CITY OF COPPELL**

**DALLAS / DENTON COUNTY, TEXAS**



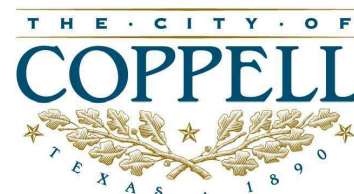
## **STANDARD CONSTRUCTION DETAILS**

**REVISED SEPTEMBER 17, 2020**

**CITY OF COPPELL ORDINANCE # 2006-1129**

## GENERAL NOTES

1. THESE STANDARD CONSTRUCTION DETAIL DRAWINGS ARE BASED ON THE STANDARD DRAWINGS PUBLISHED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) IN 1996. IN ADDITION TO NUMEROUS LOCAL EXCEPTIONS, MANY DETAILS IN THIS SET ARE UNIQUE TO THE CITY OF COPPELL. THESE STANDARD CONSTRUCTION DETAIL DRAWINGS SUPERSEDE ALL OTHER VERSIONS OF NCTCOG AND CITY OF COPPELL STANDARD CONSTRUCTION DETAILS. THE CITY OF COPPELL RESERVES THE RIGHT TO UPDATE, MODIFY OR SUPERSEDE THESE STANDARD CONSTRUCTION DETAIL DRAWINGS WITHOUT NOTICE. THE CITY OF COPPELL RESERVES THE RIGHT TO REQUIRE METHODS AND MATERIALS CONTRADICTORY TO THOSE SHOWN IN THESE DETAILS ON A CASE BY CASE BASIS.
2. THE CITY OF COPPELL HAS ADOPTED THE "Standard Specifications for Public Works Construction", 4TH EDITION, AS ITS BASIC CONSTRUCTION SPECIFICATIONS. THIS DOCUMENT IS AVAILABLE FOR PURCHASE FROM THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG), 616 SIX FLAGS DR., SUITE 200, P.O. BOX 5888, ARLINGTON TEXAS 76005-5888, PH. 817/640-3300, nctcog.org. THE CITY OF COPPELL RESERVES THE RIGHT TO MAKE LOCAL EXCEPTIONS TO ANY STANDARD SPECIFICATION.
3. WHERE THE STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS DO NOT ADDRESS A SPECIFIC ITEM ADEQUATELY, REFER TO THE APPROPRIATE STANDARDS PUBLISHED BY THE TEXAS DEPARTMENT OF TRANSPORTATION (TxDOT), THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (T.M.U.T.C.D.), TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (T.C.E.Q.), TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (T.P.D.E.S.) GENERAL PERMIT, AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (A.A.S.H.T.O.), ASTM International AND THE ENVIRONMENTAL PROTECTION AGENCY (E.P.A).
4. LOCAL, STATE AND FEDERAL ORDINANCES WHICH REGULATE DEVELOPMENT IN THE CITY OF COPPELL ARE:
  - a. CITY OF COPPELL SUBDIVISION ORDINANCE.
  - b. CITY OF COPPELL FLOODPLAIN ORDINANCE.
  - c. CITY OF COPPELL IMPACT FEE ORDINANCE.
  - d. CITY OF COPPELL EROSION CONTROL ORDINANCE.
  - e. CITY OF COPPELL ZONING ORDINANCE.
  - f. CITY OF COPPELL RIGHT-OF-WAY MANAGEMENT ORDINANCE.
  - g. CITY OF COPPELL TREE ORDINANCE
  - h. CITY OF COPPELL NOISE ORDINANCE
  - i. CITY OF COPPELL CITY-WIDE STORM WATER MANAGEMENT STUDY
  - j. TEXAS ACCESSIBILITY STANDARDS (T.A.S.)
  - k. AMERICANS WITH DISABILITIES ACT (A.D.A.)
  - △ l. TxDot PED 18 PEDESTRIAN FACILITIES CURB RAMPS



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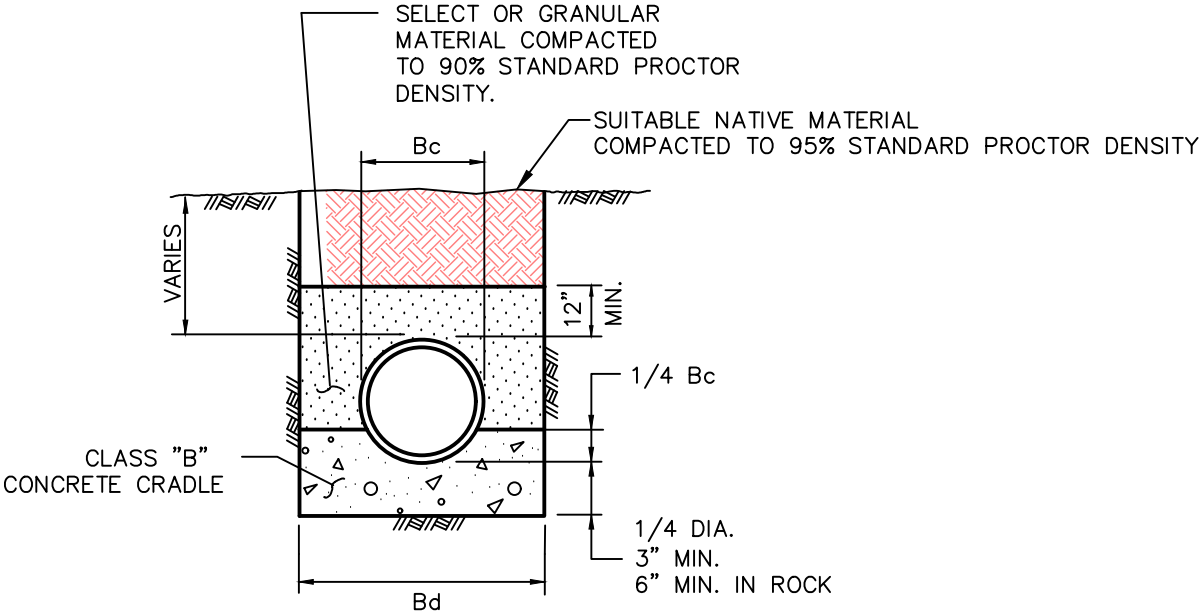
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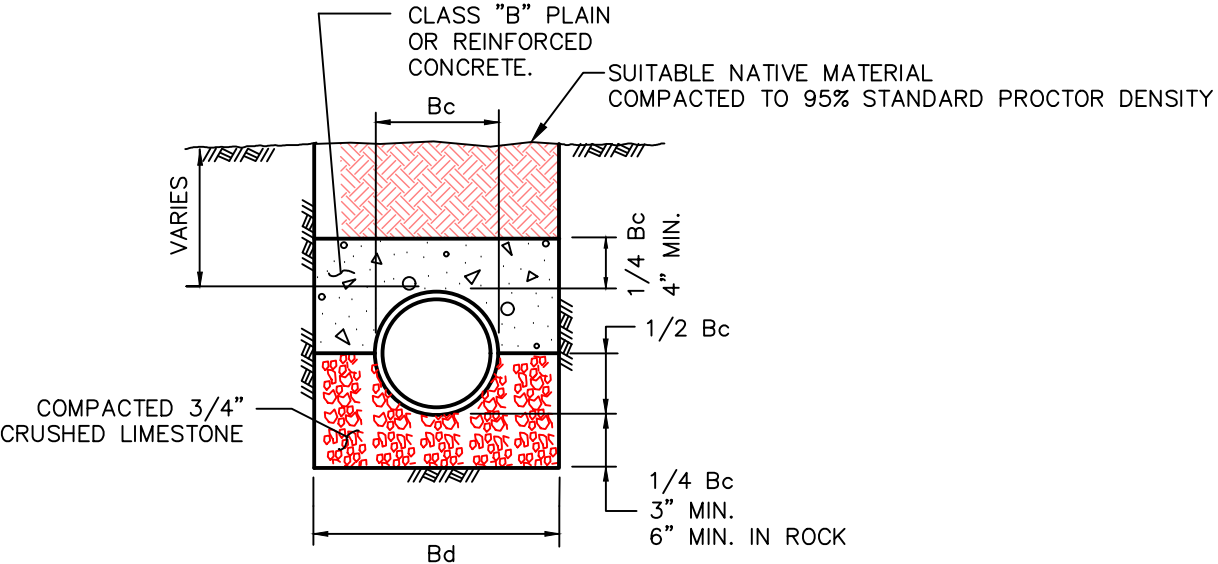
6010	STORM DRAIN <u>Manhole 4', 5', or 6' Square</u>
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CLASS "A"

CLASS "B" CONCRETE CRADLE  
PLAIN CONC. LF 2.8  
REINF. CONC. LF 3.4 P=0.4%  
N.T.S.



CLASS "A-1"

CLASS "B" CONCRETE CAP  
PLAIN CONC. LF 2.8  
REINF. CONC. LF 3.4 P=0.4%  
REINF. CONC. LF 4.8 P=1.0%  
N.T.S.

NOTES:

1. LF. = LOAD FACTOR TO BE USED TO DETERMINE 3 EDGE BEARING BASED ON TYPE OF EMBEDMENT.
2. FREE-FALL OF CONCRETE NOT TO EXCEED 5 FT.
3. P = Rho FOR STEEL %
4. Bc = OUTSIDE DIAMETER OF PIPE
5. Bd = TRENCH WIDTH
6. GREEN TRACER TAPE SHALL BE PLACED OVER ALL SANITARY SEWER MAINS.
7. BLUE TRACER WIRE, AWG #12, SHALL BE PLACED OVER ALL WATER MAINS AND ROUTED THROUGH VALVE STACKS.
8. CLASS "A" AND "A-1" EMBEDMENT MAY BE USED WHEN APPROVED BY THE CITY ENGINEER FOR EMBEDMENT OF A WATER OR SANITARY SEWER PIPE WHICH PASSES BENEATH A STORM DRAIN PIPE.

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NOTE: STANDARDS ARE ADOPTED FROM THE NCTCOG STANDARD DRAWINGS DATED NOV. '96, WITH LOCAL EXCEPTIONS.

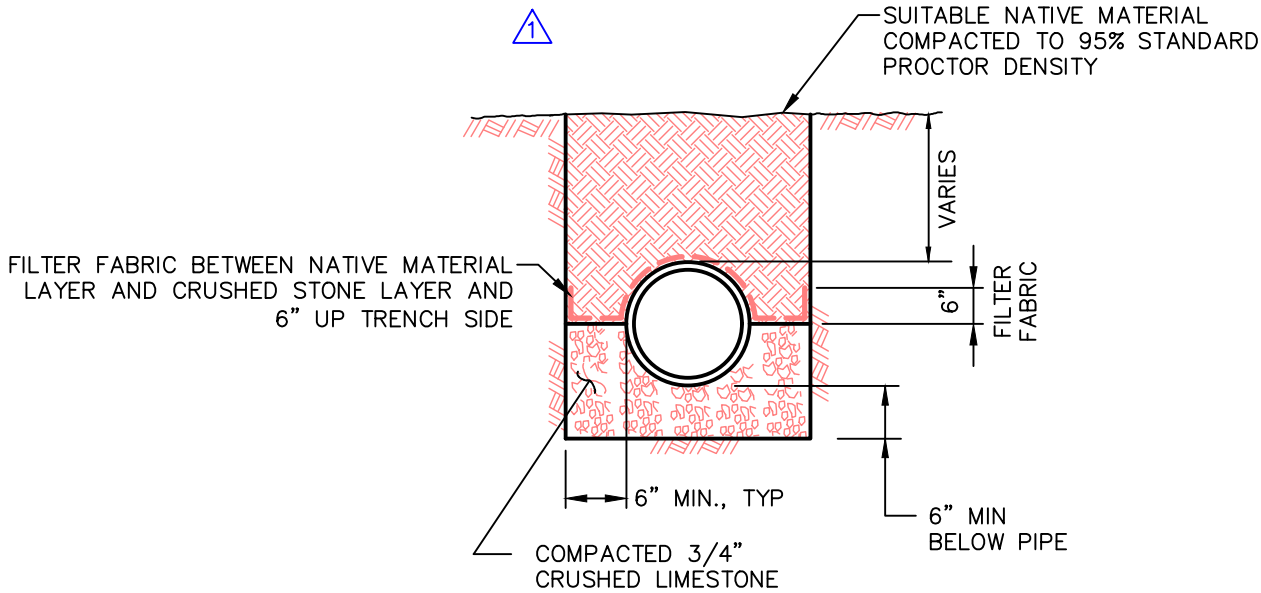
NO.	LOCAL EXCEPTION	BY	DATE			

THE CITY OF  
COPPELL  
TEXAS 1890

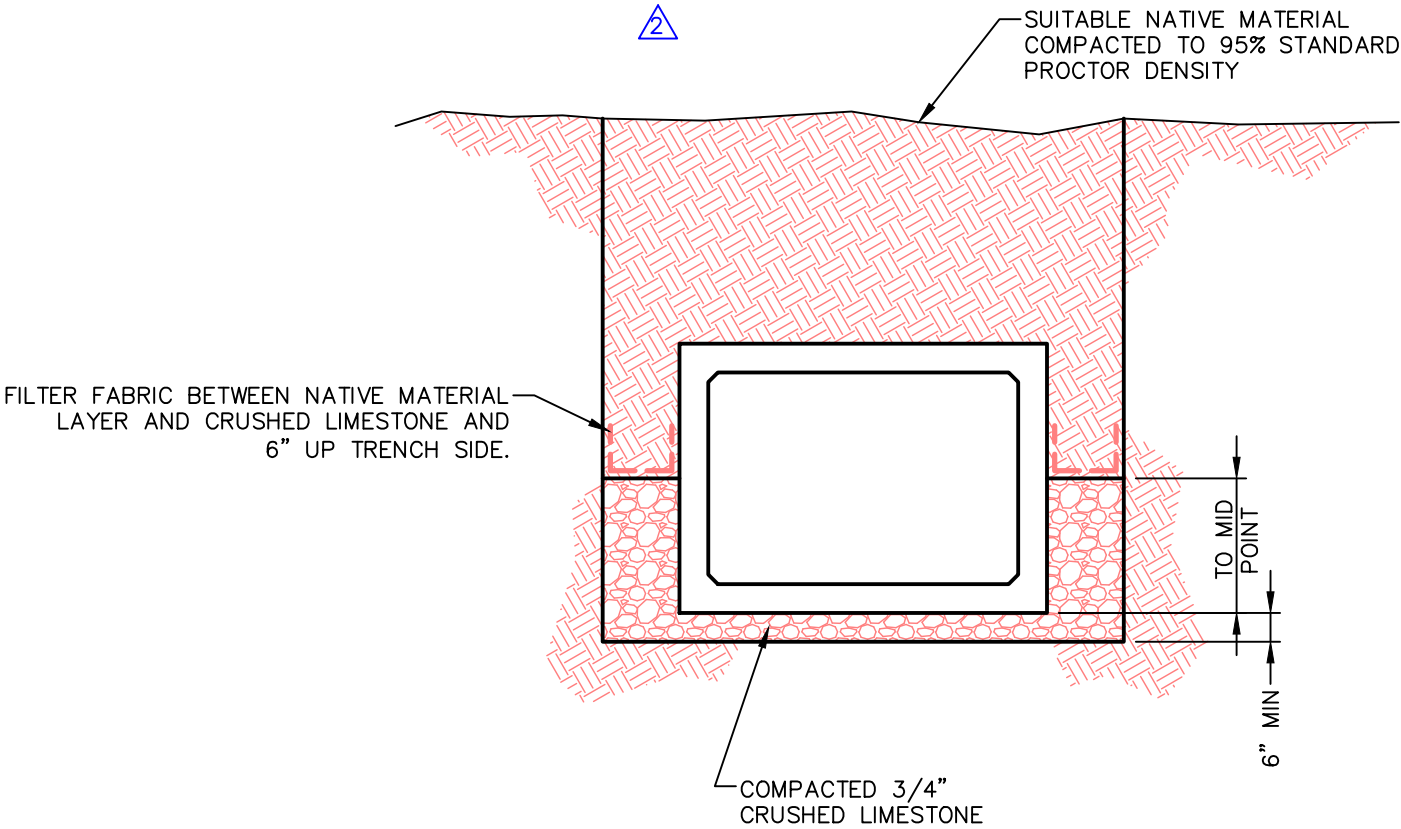
STANDARD CONSTRUCTION DETAILS  
EMBEDMENT  
CLASS "A" AND "A-1"  
CITY OF COPPELL DALLAS COUNTY, TEXAS

STD. SPEC. REFERENCE  
504, 702.  
STANDARD DETAIL  
3010





STORM DRAIN EMBEDMENT, RCP  
N.T.S.




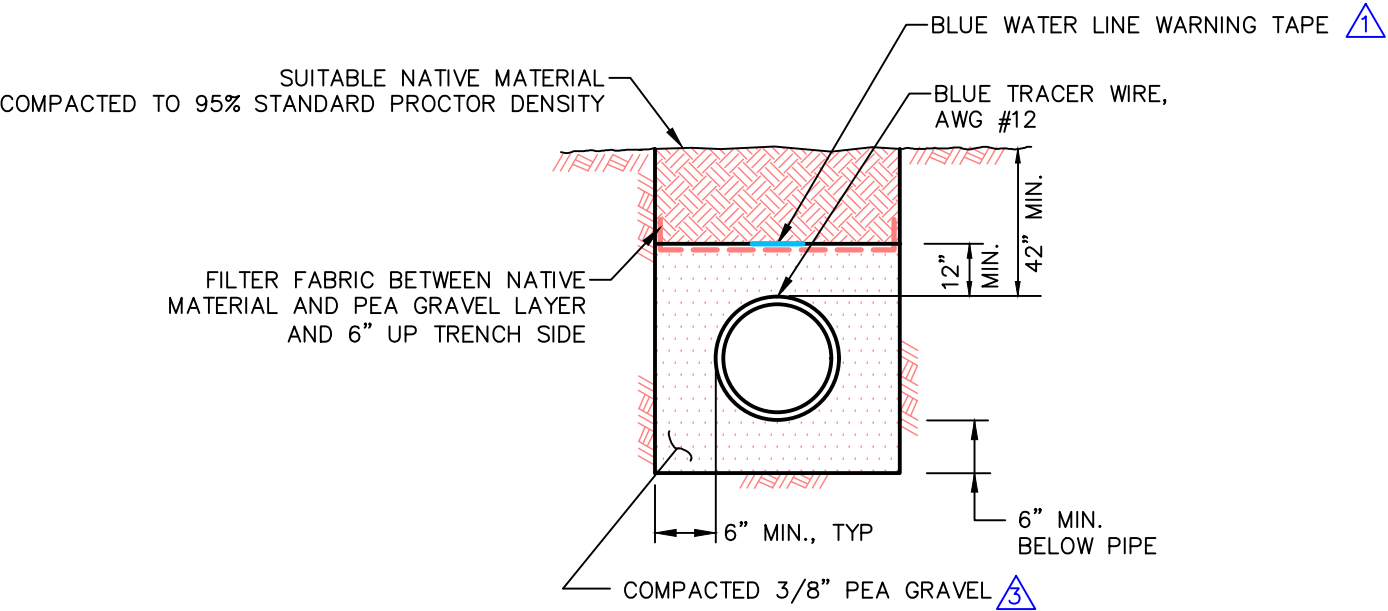
STORM DRAIN EMBEDMENT, RCBC  
N.T.S.

North Central Texas Council of Governments



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					STANDARD CONSTRUCTION DETAILS	STD. SPEC. REFERENCE 508.
					EMBEDMENT STORM DRAIN	STANDARD DETAIL 3020
					CITY OF COPPELL DALLAS COUNTY, TEXAS	
NO.	LOCAL EXCEPTION	BY	DATE			
2	REMOVED SELECT FILL LAYER OVER RCBC	CMSB	MAR. '20			
1	REMOVED SAND LAYER OVER RCP	CMSB	MAR. '20			



WATER MAIN EMBEDMENT

(UNLESS MODIFIED BY APPROVED CONSTRUCTION PLANS)  
N.T.S.

NOTES:

- 1. BLUE TRACER WIRE, AWG #12, SHALL BE PLACED OVER ALL WATER MAINS AND ROUTED THROUGH VALVE STACKS.
- 2. BLUE WATER LINE WARNING TAPE SHALL BE PLACED 12" ABOVE ALL WATER MAINS.
- 3. WATER LINE MINIMUM COVER IS 42" TO TOP OF PIPE.
- 4. ALL UTILITY CROSSINGS SHALL MEET TCEQ REQUIREMENTS.

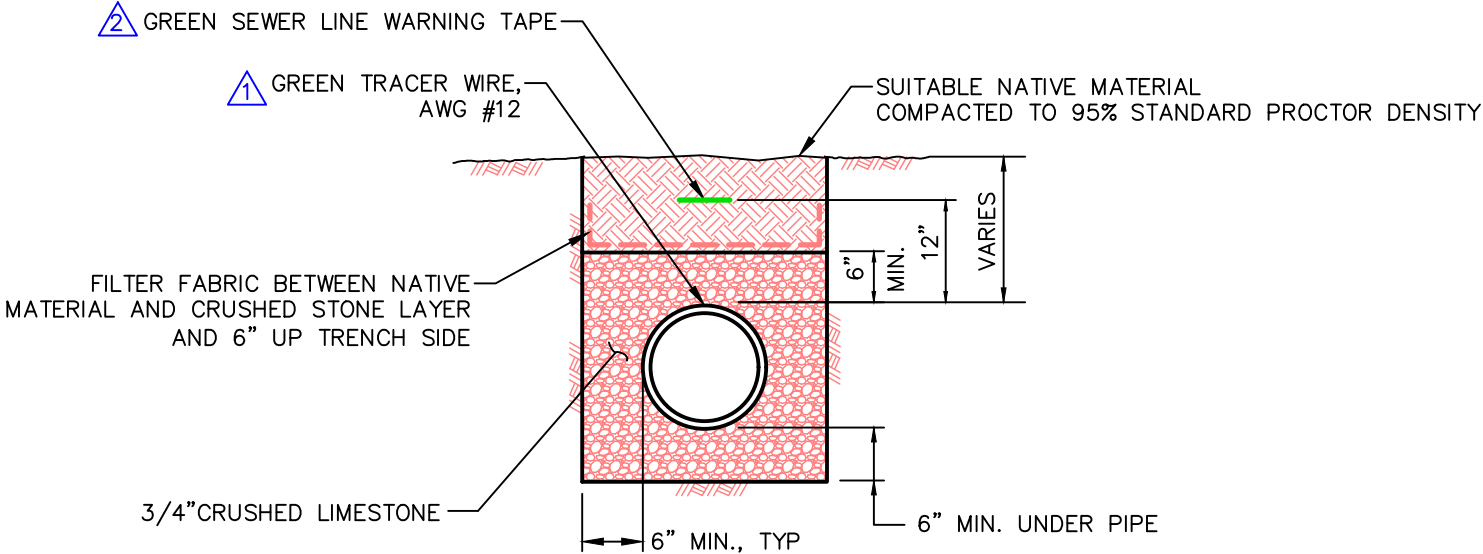
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NOTE: STANDARDS ARE ADOPTED FROM THE NCTCOG STANDARD DRAWINGS DATED NOV. '96, WITH LOCAL EXCEPTIONS.

				<div><div>THE CITY OF</div><div>COPPELL</div><div>TEXAS 1890</div></div>	STANDARD CONSTRUCTION DETAILS	STD. SPEC. REFERENCE 504., 506.
3	CHANGED EMBEDMENT MATERIAL FROM SAND TO 3/8" PEA GRAVEL	CMSB	MAR. '20		EMBEDMENT	
2	ADDED NOTE 4	CMSB	MAR. '20		WATER MAIN	STANDARD DETAIL
1	ADDED WARNING TAPE	CMSB	MAR. '20			3030
NO.	LOCAL EXCEPTION	BY	DATE		CITY OF COPPELL DALLAS COUNTY, TEXAS	





SANITARY SEWER LINE EMBEDMENT

(UNLESS MODIFIED BY APPROVED CONSTRUCTION PLANS)  
N.T.S.


NOTE:

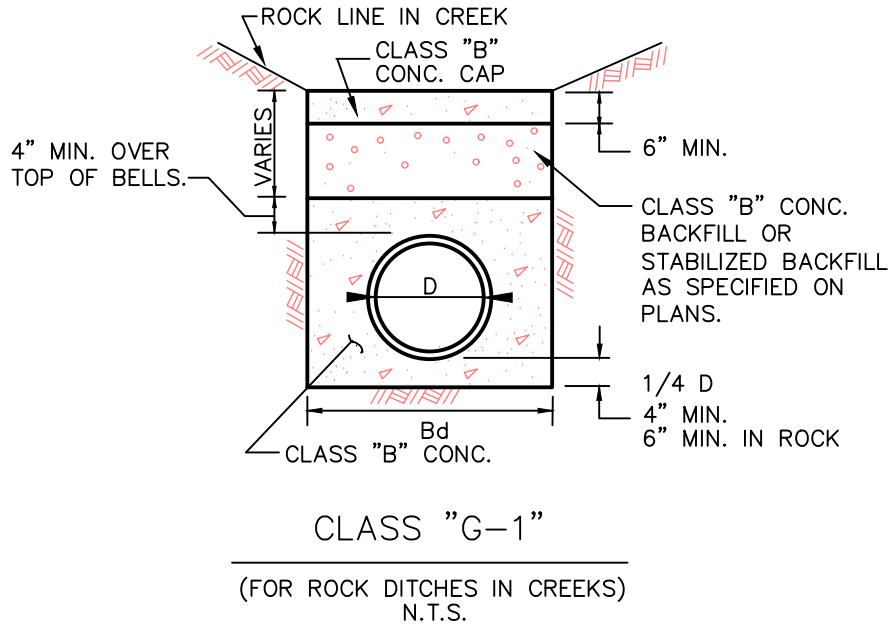
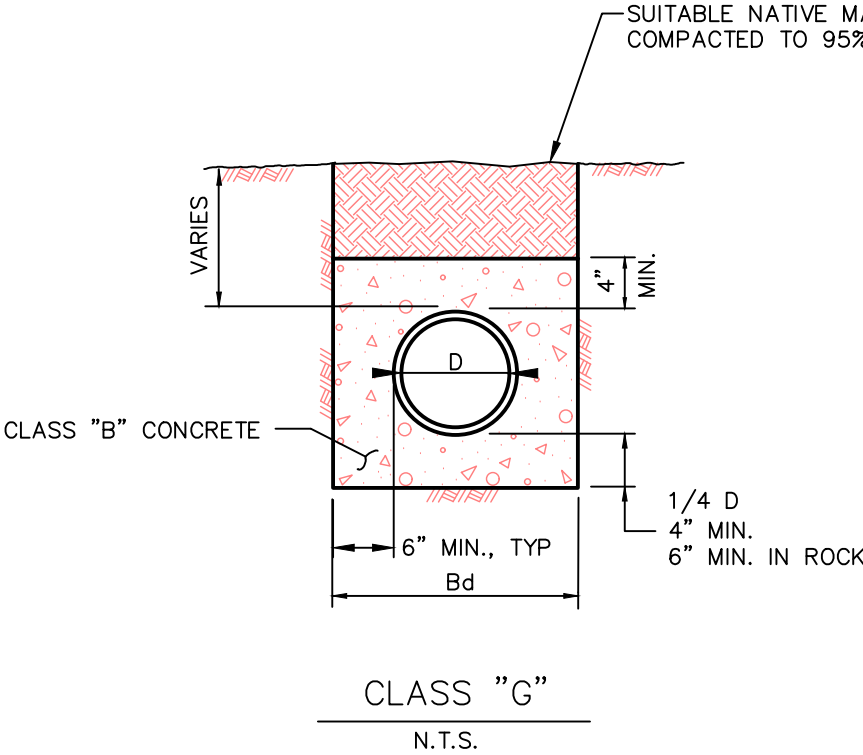
- 1. GREEN TRACER WIRE, AWG #12, SHALL BE PLACED OVER ALL SANITARY SEWER MAINS.
- 2. GREEN SEWER LINE WARNING TAPE SHALL BE PLACED 12" ABOVE ALL SANITARY SEWER MAINS.
- 3. ALL UTILITY CROSSINGS SHALL MEET TCEQ REQUIREMENTS.

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NOTE: STANDARDS ARE ADOPTED FROM THE NCTCOG STANDARD  
DRAWINGS DATED NOV. '96, WITH LOCAL EXCEPTIONS.

					STANDARD CONSTRUCTION DETAILS	STD. SPEC. REFERENCE 504., 507.
3	ADDED NOTE 3	CMSB	MAR. '20		EMBODIMENT	
2	ADDED WARNING TAPE	CMSB	MAR. '20		SANITARY SEWER	STANDARD DETAIL
1	CHANGED TRACER TAPE TO TRACER WIRE	CMSB	MAR. '20		CITY OF COPPELL DALLAS COUNTY, TEXAS	3050
NO.	LOCAL EXCEPTION	BY	DATE			



- NOTES:**
- 1. D = INSIDE DIAMETER OF PIPE
  - 2. Bd = TRENCH WIDTH
  - 3. TRACER TAPE SHALL BE PLACED OVER ALL SANITARY SEWER MAINS.
  - 4. BLUE TRACER WIRE, AWG #12, SHALL BE PLACED OVER ALL WATER MAINS.

North Central Texas Council of Governments



**NOTE:** STANDARDS ARE ADOPTED FROM THE NCTCOG STANDARD DRAWINGS DATED NOV. '96, WITH LOCAL EXCEPTIONS.



STANDARD CONSTRUCTION DETAILS

EMBEDMENT

CLASS "G" AND "G-1"

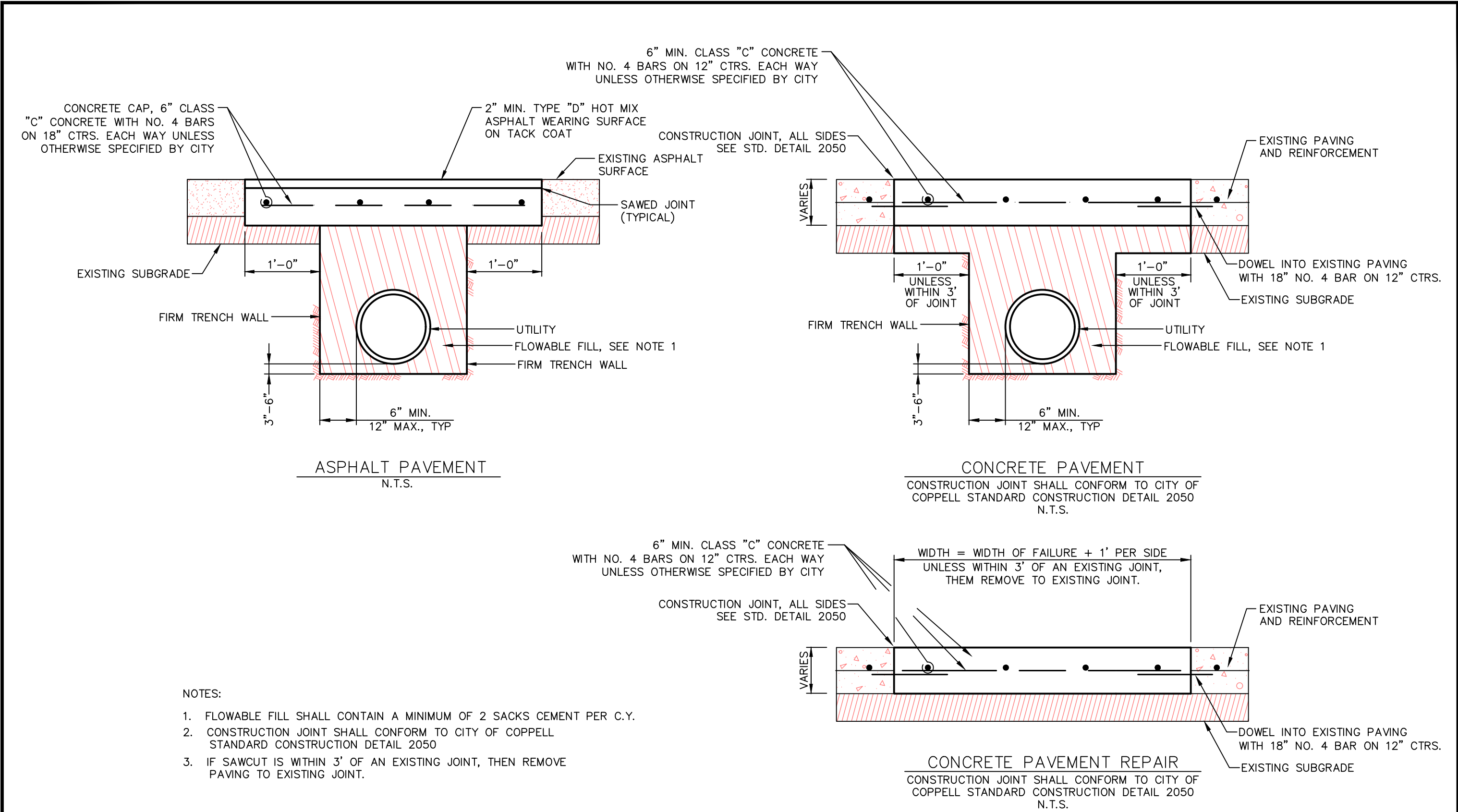
CITY OF COPPELL DALLAS COUNTY, TEXAS

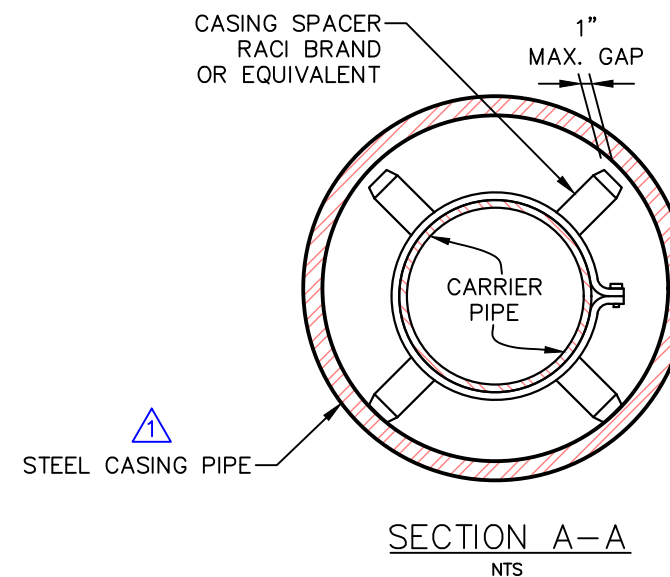
STD. SPEC.  
REFERENCE  
504., 702.

STANDARD DETAIL

3060

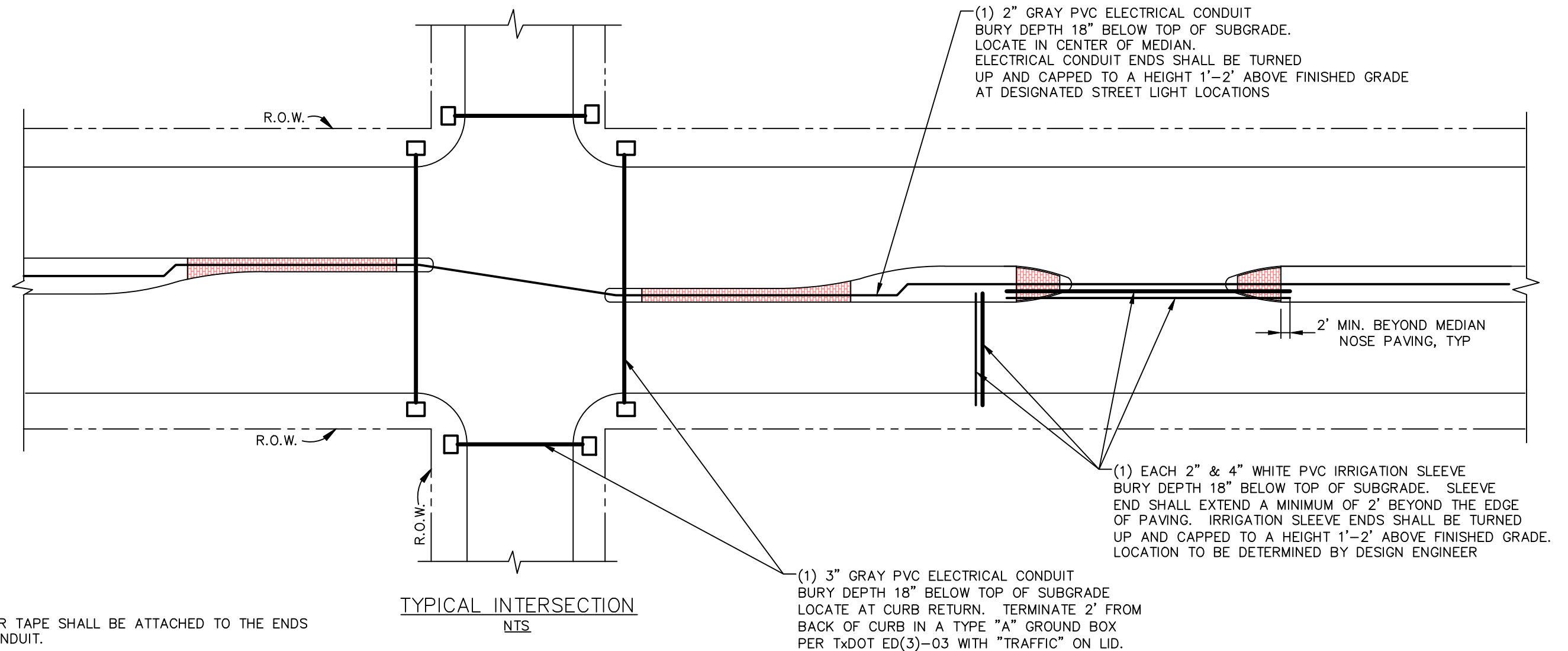
NO.	LOCAL EXCEPTION	BY	DATE






TYPICAL ROADWAY SECTION  
NTS


3090



- NOTES:
- RED MARKER TAPE SHALL BE ATTACHED TO THE ENDS OF THE CONDUIT.
  - THE LOCATION OF THE INTERSECTION OF THE CONDUIT AND THE BACK OF PAVING SHALL BE MARKED WITH A CHISELED "X" AND RED PAINT.
  - "MULE TAPE" CORD WITH INTEGRAL TRACER WIRE SHALL BE PLACED IN ALL CONDUIT. CORD SHALL EXTEND A MINIMUM OF 1' FROM THE CONDUIT END.
  - ALL PIPE JOINTS SHALL BE SOLVENT WELDED.
  - ALL CONDUIT/SLEEVING SHALL BE SCHEDULE 80 PVC OR DR 11 HDPE, GRAY IN COLOR.
  - ADDITIONAL CONDUIT MAY BE NECESSARY DUE TO SITE CONDITIONS.

North Central Texas Council of Governments

 **NOTE:** STANDARDS ARE ADOPTED FROM THE NCTCOG STANDARD DRAWINGS DATED NOV. '96, WITH LOCAL EXCEPTIONS.

					STANDARD CONSTRUCTION DETAILS	STD. SPEC. REFERENCE 805.
					GENERAL UNDERGROUND CONDUIT	
					IRRIGATION SLEEVING AND ELECTRICAL CONDUIT	STANDARD DETAIL
					CITY OF COPPELL DALLAS COUNTY, TEXAS	3095
NO.	LOCAL EXCEPTION	BY	DATE			

GENERAL UNDERGROUND CONDUIT  
GENERAL NOTES AND TESTING

- 1. CONDUIT SHALL NOT BE PLACED WHERE IT IS LIKELY TO BE DAMAGED.
- 2. MECHANICAL COMPACTION IS REQUIRED IN TRENCH BACKFILL. COMPACTION WITH EXCAVATOR BUCKET IS NOT PERMITTED.

North Central Texas Council of Governments



NOTE: STANDARDS ARE ADOPTED FROM THE NCTCOG STANDARD DRAWINGS DATED NOV. '96, WITH LOCAL EXCEPTIONS.

					STANDARD CONSTRUCTION DETAILS	STD. SPEC. REFERENCE
					GENERAL UNDERGROUND CONDUIT GENERAL NOTES AND TESTING	
					CITY OF COPPELL DALLAS COUNTY, TEXAS	STANDARD DETAIL 3100
NO.	LOCAL EXCEPTION	BY	DATE			